



SEQUENCE LISTING

<110> Presta, Leonard G.  
Snedecor, Bradley R.

<120> ALTERED POLYPEPTIDES WITH INCREASED HALF-LIFE

<130> 11669.161USC1

<140> US 09/628,568

<141> 2000-07-31

<150> US 08/422,112

<151> 1995-04-14

<160> 31

<170> PatentIn version 3.3

<210> 1

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Peptide

<400> 1

His Gln Asn Leu Ser Asp Gly Lys

1

5

<210> 2

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Peptide

<400> 2

His Gln Asn Ile Ser Asp Gly Lys

1

5

<210> 3

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Peptide

<400> 3

Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro

1

5

10

<210> 4  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 4

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys  
 1 5 10 15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
 20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
 35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
 50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
 65 70 75 80

Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
 85 90 95

Arg Val

<210> 5  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 5

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
 1 5 10 15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
 20 25 30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
 35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
 50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr

65

70

75

80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys  
                             85                            90                            95

Thr Val

<210> 6

<211> 98

<212> PRT

<213> Homo sapiens

<400> 6

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
   1                            5                            10                            15

Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
                             20                            25                            30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
                             35                            40                            45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
                             50                            55                            60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
   65                            70                            75                            80

Tyr Thr Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys  
                             85                            90                            95

Arg Val

<210> 7

<211> 98

<212> PRT

<213> Homo sapiens

<400> 7

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg  
   1                            5                            10                            15

Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
                             20                            25                            30

Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
35 40 45

Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
50 55 60

Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Lys Thr  
65 70 75 80

Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys  
85 90 95

Arg Val

<210> 8  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 8

Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu  
1 5 10 15

Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn Asn Phe  
20 25 30

Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala Leu Gln  
35 40 45

Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys Asp Ser  
50 55 60

Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp Tyr Glu  
65 70 75 80

Lys His Lys Val Tyr Ala Cys Glu Val Thr His Gln Gly Leu Ser Ser  
85 90 95

Pro Val Thr Lys Ser Phe Asn Arg Gly Glu Cys  
100 105

<210> 9  
<211> 105  
<212> PRT  
<213> Homo sapiens

<400> 9

Gln Pro Lys Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu  
1 5 10 15

Glu Leu Gln Ala Asn Lys Ala Thr Leu Val Cys Leu Ile Ser Asp Phe  
20 25 30

Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser Ser Pro Val  
35 40 45

Lys Ala Gly Val Glu Thr Thr Thr Pro Ser Lys Gln Ser Asn Asn Lys  
50 55 60

Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys Ser  
65 70 75 80

His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser Thr Val Glu  
85 90 95

Lys Thr Val Ala Pro Thr Glu Cys Ser  
100 105

<210> 10

<211> 100

<212> PRT

<213> Artificial

<220>

<223> Fab v1b variant

<400> 10

Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Pro Lys  
1 5 10 15

Asn Ser Ser Met Ile Ser Asn Thr Pro Ala Leu Gly Cys Leu Val Lys  
20 25 30

Asp Tyr Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu  
35 40 45

Thr Ser Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu  
50 55 60

Tyr Ser Leu Ser Ser Val Val Thr Val Pro His Gln Ser Leu Gly Thr  
65 70 75 80

Gln Thr Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val  
85 90 95

Asp Lys Arg Val  
100

<210> 11  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Peptide

<400> 11

His Gln Ser Leu Gly Thr Gln  
1 5

<210> 12  
<211> 29  
<212> DNA  
<213> Artificial

<220>  
<223> Oligonucleotide

<400> 12  
gtgaccgtgc ctcaccagag cttgggcac

29

<210> 13  
<211> 53  
<212> DNA  
<213> Artificial

<220>  
<223> Oligonucleotide

<400> 13  
tggcaccctc ccctaagaac tcgagcatga tcagcaacac accggccctg ggc

53

<210> 14  
<211> 11  
<212> PRT  
<213> Artificial

<220>  
<223> Peptide

<400> 14

Ser Ser Lys Ser Thr Ser Gly Gly Thr Ala Ala  
1 5 10

<210> 15  
<211> 13  
<212> PRT  
<213> Artificial

<220>  
<223> Peptide

<400> 15

Ser Pro Lys Asn Ser Ser Met Ile Ser Asn Thr Pro Ala  
1 5 10

<210> 16  
<211> 34  
<212> DNA  
<213> Artificial

<220>  
<223> Oligonucleotide

<400> 16  
tggcaccctc caaatcgagc atcacagcgg ccct

34

<210> 17  
<211> 9  
<212> PRT  
<213> Artificial

<220>  
<223> Peptide

<400> 17

Ser Ser Lys Ser Thr Ser Gly Gly Thr  
1 5

<210> 18  
<211> 6  
<212> PRT  
<213> Artificial

<220>  
<223> Peptide

<400> 18

Ser Lys Ser Ser Ile Thr  
1 5

<210> 19  
<211> 44  
<212> DNA  
<213> Artificial

<220>  
 <223> Oligonucleotide  
  
 <400> 19  
 tgggtgaccgt gatctcgagc cacttggggcc agcagaccta catc

44

<210> 20  
 <211> 9  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Peptide

<400> 20

Val Pro Ser Ser Ser Leu Gly Thr Gln  
 1 5

<210> 21  
 <211> 9  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Peptide

<400> 21

Val Ile Ser Ser His Leu Gly Gln Gln  
 1 5

<210> 22  
 <211> 45  
 <212> PRT  
 <213> Artificial

<220>  
 <223> Peptide

<400> 22

Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Arg Met Lys Gln  
 1 5 10 15

Leu Glu Asp Lys Val Glu Glu Leu Leu Ser Lys Asn Tyr His Leu Glu  
 20 25 30

Asn Glu Val Ala Arg Leu Lys Lys Leu Val Gly Glu Arg  
 35 40 45

<210> 23  
 <211> 28  
 <212> DNA



<213> Artificial

<220>

<223> Oligonucleotide

<400> 23

tcgagcatga tctctagaac accggccc

28

<210> 24

<211> 36

<212> DNA

<213> Artificial

<220>

<223> Oligonucleotide

<400> 24

gcctcaccag aacctaggca ccaagaccta catctg

36

<210> 25

<211> 40

<212> DNA

<213> Artificial

<220>

<223> Oligonucleotide

<400> 25

gcctcaccag aacttaagcg acggaaagac ctacatctgc

40

<210> 26

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Peptide

<400> 26

Gln Ser Leu Gly Thr Gln Thr

1

5

<210> 27

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Peptide

<400> 27

Gln Asn Leu Ser Asp Gly Lys Thr

1

5

<210> 28  
<211> 40  
<212> DNA  
<213> Artificial

<220>  
<223> Oligonucleotide

<400> 28  
gcctcaccag aatattacag atggcaagac ctacatctgc

40

<210> 29  
<211> 7  
<212> PRT  
<213> Artificial

<220>  
<223> Peptide

<400> 29

Gln Ser Leu Gly Thr Gln Thr  
1 5

<210> 30  
<211> 8  
<212> PRT  
<213> Artificial

<220>  
<223> Peptide

<400> 30

Gln Asn Ile Ser Asp Gly Lys Thr  
1 5

<210> 31  
<211> 8  
<212> PRT  
<213> Artificial

<220>  
<223> Peptide

<400> 31

Val Ile Ser Ser His Leu Gly Gln  
1 5